

IN THE CLAIMS:

1. (Withdrawn) A biosensor cartridge for storing a plurality of biosensors within a case in a stacked manner, comprising:

sensor send-out means for sending out the biosensor in the case one by one and discharging the biosensor from a sensor ejecting port opened at the case.

2. (Withdrawn) The biosensor cartridge according to claim 1, wherein the sensor send-out means comprises a cylindrical rotating member rotated by an external sensor sending out mechanism, and a sliding member, engaged so as to be slideable with respect to the rotating member, for sliding with the rotation of the rotating member and pushing a rear end of the biosensor at the bottom layer.

3. (Withdrawn) The biosensor cartridge according to claim 2, wherein a spiral groove for engaging the sliding member is formed at a cylindrical surface of the rotating member.

4. (Withdrawn) The biosensor cartridge according to claim 3, wherein the spiral groove is formed over a range of not lower than 360° around a rotating shaft of the rotating member.

5. (Withdrawn) The biosensor cartridge according to claim 2, wherein a sealing member for sealing an opening formed in the case is formed at an end part of the rotating member, the opening being formed in the case to support the rotating member.

6. (Withdrawn) The biosensor cartridge according to claim 2, wherein the case is partitioned to a biosensor storing chamber for storing the plurality of biosensors in a stacked manner, and a sliding member housing chamber for housing the sliding member resting at an initial position, at where the rear end of the biosensor in the biosensor storing chamber can be pushed, with a partition wall including an opening having a narrower width than the biosensor.

7. (Withdrawn) The biosensor cartridge according to claim 6, wherein the opening of the partition wall is set to a width so that a projection formed on the sliding member is able to pass through to push the rear end of the biosensor at the bottom layer.

8. (Withdrawn) The biosensor cartridge according to claim 2, wherein a concave part corresponding to an outer shape of valve means for opening and closing the sensor ejecting port is provided on an exterior surface of the case including the sensor ejecting port.

9. (Withdrawn) The biosensor cartridge according to claim 1, wherein the sensor send-out means includes a sliding member sled by an external sensor sending out mechanism to push a rear end of the biosensor at the bottom layer.

10. (Withdrawn) The biosensor cartridge according to claim 9, further comprising a seal plate for opening and closing the sensor ejecting port in synchronization with a sensor discharging operation by the sliding member.

11. (Withdrawn) The biosensor cartridge according to claim 10, wherein the seal plate is opened by the sliding member.

12. (Withdrawn) The biosensor cartridge according to claim 11, further comprising a spring member for pressing the seal plate towards the sensor ejecting port, wherein the sliding member is arranged under the biosensor closer to the sensor ejecting port than the front end of the biosensor when the sliding member is at an initial position at where the rear end of the biosensor at the bottom layer can be pushed, guides the biosensor towards the sensor ejecting port during the sensor discharging operation and includes a projection for moving the seal plate against a spring member.

13. (Withdrawn) The biosensor cartridge according to claim 10, wherein the seal plate includes an elastic sealing member pressure welding against an exterior surface of the case around the sensor ejecting port.

14. (Withdrawn) The biosensor cartridge according to claim 13, further comprising a small projection to which the elastic sealing member is pressure welded at an exterior surface of the case around the sensor ejecting port.

15. (Withdrawn) The biosensor cartridge according to claim 9, further comprising a sealing member for sealing an opening formed in the case for an external sensor sending out mechanism coupled to the sliding member when the sliding member is at the initial position at where the rear end of the biosensor can be pushed.

16. (Withdrawn) The biosensor cartridge according to claim 9, further comprising returning means for returning the sliding member to the initial position at where the rear end of the biosensor can be pushed.

17. (Withdrawn) The biosensor cartridge according to claim 9, wherein the sliding member includes a projection arranged under the biosensor when at the initial position at where the rear end of the biosensor can be pushed.

18. (Withdrawn) The biosensor cartridge according to claim 1, wherein the case is partitioned to a biosensor storing chamber for storing the plurality of biosensors in a stacked manner and a desiccant storing chamber for storing a desiccant with a partition wall, and is formed with an air flow path communicating between both storing chambers.

19. (Withdrawn) The biosensor cartridge according to claim 18, wherein a partition wall is provided in the desiccant storing chamber, an air flow path connected to the air flow path communicating to the biosensor storing chamber is formed, and the desiccants are stored along the air flow path.

20. (Withdrawn) The biosensor cartridge according to claim 19, wherein the desiccant is molded as a single body or is divided into a plurality of parts so as to correspond to the shape of the air flow path in the desiccant storing chamber.

21. (Withdrawn) The biosensor cartridge according claim 1, further comprising a hold-down plate arranged on the biosensor so as to slidably contact the interior surface of the case along a stacked direction of the biosensor, and an elastic body for holding down the biosensor in the stacked direction through the hold-down plate.

22. (Withdrawn) The biosensor cartridge according to claim 9, wherein the biosensor has a step-shape in which a thickness is large at a front end and small at a rear end, and the sliding member for pushing the rear end of the biosensor includes a concave part for holding the rear end having a small thickness.

23. (Withdrawn) The biosensor cartridge according to claim 21, wherein the biosensor has a step-shape in which a thickness is large at a front end and small at a rear end, and the elastic body for holding down the biosensor through the hold-down plate is arranged on a back surface of the hold-down plate at a portion corresponding to the front end region having a large thickness.

24. (Currently Amended) A biosensor dispensing device comprising:

~~a cartridge storing chamber detachably holding~~ a biosensor cartridge for storing a stacked plurality of biosensors ~~in a case in a stacked manner and including sensor send-out ejecting~~ means for ~~sending out the biosensor in the case~~ ejecting a biosensor from the cartridge one by one and discharging the biosensor from via a sensor ejecting port opened at the case, the sensor ejecting port located in a wall of the cartridge facing tips of such biosensors, which port is closed except when such biosensors are being ejected;

a biosensor dispensing device body comprising a cartridge storing chamber for detachably holding said biosensor cartridge,

a ~~sensor sending out~~ driving mechanism for driving the sensor ~~send-out ejecting~~ means in the biosensor cartridge; and

a sensor conveying mechanism for conveying ~~the biosensor discharged an ejected~~ biosensor from the sensor ejecting port ~~by the sensor send-out means to a predetermined test position at where a sample can be applied, inside a body; and~~

an operating part outside the device body, for turning the sensor sending out mechanism ON and OFF outside the body in an exposed manner for the operating the driving mechanism, thereby ejecting a biosensor from the sensor ejecting port.

25. (Currently Amended) The biosensor dispensing device according to claim 24, further comprising sensor conducting means for ~~pressing and holding~~ connecting electrodes on a the biosensor ~~conveyed to the~~ in such test position, and ~~for conducting the biosensor transmitting~~ electrical data from such biosensor to an electrical circuit within the device body.

26. (Currently Amended) The biosensor dispensing device according to claim 25, ~~wherein further comprising a display unit is provided on an exterior surface of the device body in order for acquiring~~ receiving electrical data from the biosensor ~~conveyed to the test position through the electrical circuit within the body,~~ corresponding to such electrical data from the biosensor, and for displaying the data from the electrical circuit.

27. (Currently Amended) The biosensor dispensing device according to claim 24, wherein the ~~cartridge storing chamber can hold the~~ ejecting means for the biosensor cartridge including comprise a cylindrical rotating member and a sliding member ~~sliding that slides with the a rotation of the rotating member, such that when the rotating member rotates, the sliding member to push the~~ pushes a rear end of the a biosensor as sensor send out means,

~~the sensor sending out driving~~ mechanism includes a rotating means for rotating the rotating member of the biosensor cartridge, and

~~the operating part is configured so as to move the sensor sending out mechanism movable into the device body with a forefinger while gripping of a hand gripping a bottom portion of an outside surface of the device body with one hand.~~

28. (Currently Amended) The biosensor dispensing device according to claim 27, wherein the operating part ~~freely exits from~~ is biased to exit the device body, and ~~when pushed into the operating part is movable into the device~~ body, ~~operates the sensor sending out to actuate the driving~~ mechanism.

29. (Currently Amended) The biosensor dispensing device according to claim 28, wherein the ~~sensor sending out driving~~ mechanism drives the sensor ~~send out ejecting~~ means to ~~discharge the~~ which ejects a biosensor in a direction opposite ~~the a~~ direction of pushing ~~in the~~ operating part into the device body to actuate the driving mechanism.

30. (Currently Amended) The biosensor dispensing device according to claim 27, further comprising valve means for opening and closing the sensor ejecting port ~~opened at the ease of~~ for the biosensor cartridge.

31. (Currently Amended) The biosensor dispensing device according to claim 30, wherein the valve means is a roller rolling over ~~the an~~ exterior surface of the ~~case including the sensor ejecting port~~ biosensor cartridge.

32. (Currently Amended) The biosensor dispensing device according to claim 30, further comprising sensor conducting means, wherein the sensor conducting means and the valve means are gear-coupled to the ~~sensor sending out driving~~ mechanism.



33. (Currently Amended) The biosensor dispensing device according to claim 32, wherein the sensor conducting means are for connecting to electrodes on a biosensor in the test position, and for transmitting electrical data from such a biosensor to an electrical circuit within the device body, and

connecting members, supported by the device body, connect at one end to ~~wherein each link member supporting the sensor conducting means and the valve means, respectively, each on one end is axially supported on the body, and~~ connect at the other end to a cam on the operating part, said cam for holding and turning the other end of each connecting member ~~link member is provided on the operating part.~~

34. (Currently Amended) The biosensor dispensing device according to claim 24, wherein ~~with one operation of~~ when the operating part is moved into the device body, the biosensor is ejected from the cartridge, conveyed to the test position, is conducted and electrically connected to the electrical circuit within the device body, ~~and set to a test state~~ thereby entering a test state.

35. (Currently Amended) The biosensor dispensing device according to claim 34, wherein a power source of the body is driven when the biosensor is ~~set to~~ in the ~~test state~~ position.

36. (Currently Amended) The biosensor dispensing device according to claim 34, wherein the biosensor ~~at the test position is discharged~~ is ejected out of the device body ~~with the operation of~~ after the operating part ~~after the biosensor is set to the test state~~ is moved into the device body.

37. (Currently Amended) The biosensor dispensing device according to claim 27, further comprising a cartridge holding mechanism for ~~unremovably holding~~ securing the biosensor cartridge ~~during the operation of~~ when the operating part is not fully extended outside the device body.

38. (Original) The biosensor dispensing device according to claim 37, wherein the cartridge holding mechanism is gear-coupled to the operating part.

39. (Currently Amended) The biosensor dispensing device according to claim 28, further comprising detection means for detecting ~~the~~ a return of the operating part ~~to the initial position~~ a fully extended position outside the device body.

40. (Currently Amended) The biosensor dispensing device according to claim 39, wherein the detection means ~~recognizes~~ detect a contact with a member ~~configuring one part of~~ the operating part.

41. (Currently Amended) The biosensor dispensing device according to claim 27, wherein the ~~sensor sending out driving~~ mechanism includes connection switching means for connecting or releasing connection of the driving mechanism with respect to the sensor ~~send out~~ ejection means ~~of the biosensor cartridge in cooperation with the opening/closing operation~~ corresponding to a closed or open state, respectively, of a lid body that opens/closes of the cartridge storing chamber ~~when attaching/detaching the biosensor cartridge.~~

42. (Currently Amended) The biosensor dispensing device according to claim 27, further comprising: wherein

a nail member ~~is provided on the operating part in an oscillating manner,~~ said nail member having a distal end that is able to oscillate;

a sliding path ~~on which a distal end of the nail member slides is formed~~ in an inner wall of the device body, for receiving the distal end of the nail member, and

a saw-blade concavo-convex part for locking the distal end of the nail member and for ~~positionally fixing the operating part in position~~ when the operation of the operating part is stopped ~~is arranged on the sliding path.~~

43. (Currently Amended) The biosensor dispensing device according to claim 42, wherein the sliding part is configured in a loop-form ~~by arranging, in series, comprising an~~ outward path on which the distal end of the nail member slides when the operating part is pushed ~~in~~ moved into the device body and a homeward path on which the distal end of the nail member slides when the operating part ~~returns to the initial position~~ is extended outside the device body, and the saw-blade concavo-convex part is ~~arranged~~ located on the outward path.

44. (Currently Amended) The biosensor dispensing device according to claim 27, further comprising a latch mechanism for locking the operating part ~~at a position at where the biosensor is set to the test state with respect to the body~~ in place when the biosensor is in such test position.

45. (Currently Amended) The biosensor dispensing device according to claim 44, wherein ~~as the latch mechanism,~~ comprises a latch projection ~~is provided on the operating part~~ and a latch body part in the device body for locking the latch projection ~~is provided in the body~~.

46. (Currently Amended) The biosensor dispensing device according to claim 24, wherein the ~~cartridge storing chamber can hold the biosensor cartridge including~~ biosensor ejecting means comprises a sliding member for pushing ~~the a rear end of the a stacked~~ biosensor ~~as the sensor send-out means,~~

~~the sensor sending-out driving~~ mechanism includes a pushing member for pushing and sliding the sliding member ~~of the biosensor cartridge,~~ and the operating part is ~~configured so as to for electrically operate the sensor sending-out operating the driving~~ mechanism.

47. (Currently Amended) The biosensor dispensing device according to claim 46, wherein the biosensor cartridge includes a seal plate for opening the sensor ejecting port only when discharging the ejecting a biosensor and closing such sensor ejecting port once such biosensor has been ejected.

48. (Currently Amended) The biosensor dispensing device according to claim 46, wherein the pushing member of the ~~sensor sending out~~ driving mechanism ~~freely exits~~ is biased towards the sliding member of the biosensor cartridge and includes detection means for detecting an operation stroke of the pushing member.

49. (Currently Amended) The biosensor dispensing device according to claim 46, further comprising detection means for detecting a position of ~~the a biosensor conveyed to a~~ predetermined in such test position ~~by the sensor conveying mechanism.~~

50. (Currently Amended) The biosensor dispensing device according to claim 46, wherein the ~~sensor sending out~~ driving mechanism and the sensor conveying mechanism are independently operable.